









Energy from Waste as Part of Lake County's Long Term Solid Waste Management Solution

Lake County Solid Waste Alternatives Task Force April 25, 2011







Our Discussion today

Covanta Recommendation and Rationale

The Case for Energy from Waste

The Case against Landfills

Looking Past June 2014





Covanta Recommendation

Renew your commitment to an integrated solid waste management approach through continued use of the Lake County Energy from Waste Facility.







Recommendation Reasoning

- > Anchors Lake County's integrated waste management system.
- > Disposes of waste in a clean, reliable and renewable manner.
- Creates important economic development opportunities.
- Complements recycling and recovers metals and energy.
- Reduces long-haul trucking of waste to out-of-county landfills.
- > Doesn't shift burden to distant communities or future generations.
- Covanta will work through the economics with Lake County to ensure a mutually beneficial financial arrangement.





The Facility: By the Numbers



528 TPD EfW Facility

- Two 264 TPD Martin® combustion units
- Opened: January 1992
- Nameplate generation capacity: 14.5
 MW (enough for ~ 11,000 homes / businesses
- Total tons MSW processed: >3 million
- More than 750,000 tons of coal NOT
 USED (equal to 15,000 railroad cars)
- More than 180 acres of landfill space preserved







The Facility: In perspective

- ➤ Built to protect Lake County's environment and to enhance and integrate existing solid waste management resources.
- > Allows you maximum flexibility in all market conditions
- Helps Lake County maintain full control of the economic impact of providing fully integrated solid waste management services
- Working together, Covanta and Lake County have made great strides to reduce Lake County's cost of solid waste management service





The Facility: Award Winning/State of the Art Facility

- 2005 & 2006 Best Places to Work Lake & Sumter counties /
 2007 Exceptional Employer
- 2007 OSHA VPP Flag Raising & Open House
- 2008 EPA Award & Clean Tech Celebration
- 2008 William C. Schwarz Innovation Award, Mid-Florida Economic Development Commission











EfW: Energy Benefits

Generates clean energy from local renewable fuel source

- US EPA states EfW "produces electricity with less environmental impact than almost any other source."
- Baseload power 24/7/365
- Homegrown power generated in Lake County helps balance load on Central Florida's transmission grid.

Promotes energy security

- One ton of waste produces 500 -750 kWhrs
- Avoids burning coal and other fossil fuels









EfW: Economic Benefits

- Stable, high-wage jobs
 - In addition to 36 primary jobs, an estimated 45 secondary jobs
 - Average tenure of Lake facility employees: 11.1 years
 - Total annual expenditures, (payroll, purchases, etc): \$11-12 million / year (more than half expended locally)
 - Annual economic impact: More than \$15 million / year added to Lake County economy
- Preservation of landfill space / extension of landfill life
 - Approximately 180 acres preserved since 1992
 - Life of Astatula landfill extended to ??
- Direct benefit to Lake County tax rolls
 - Estimated \$500,000 / year (beginning in 2014)
- EfW offers predictable waste disposal costs





The Case against Landfilling

Environmental Risks

- Greenhouse gas emissions: methane (CH₄) is more than 20 times more effective than carbon dioxide (CO₂) in trapping heat in the atmosphere).
- EPA states landfills even those with gas collection systems – are major sources of methane emissions to atmosphere.
- Trucking waste to a landfill is another source of greenhouse gasses.







The Case against Landfilling

Economic Risks

- Landfills expose communities to uncertain costs.
- Fuel costs for trucking.
- Gate fees are low now, but could rise if fuel prices spike.
- Sending waste to out-of-county regional landfills transfers burden of managing decomposing waste to another jurisdiction and future generations.









Public Views: EfW v. Landfill

Will you please tell me if you have a favorable or unfavorable opinion of each energy source? If you have no opinion or have never heard of energy source, just say so.

Favorable Ranking

	FAV	very	some	UNFAV	some	very	No Op	ИНО	NET
Solar Energy	87	67	20	5	3	2	7	1	+82
Natural Gas	79	44	35	13	8	5	8	1	+66
Wind Energy	78	53	25	10	5	5	9	4	+68
Waste to Energy	67	38	30	7	4	3	13	13	+60
Renewable Energy	65	43	22	4	2	2	15	16	+61
Nuclear Energy	62	33	29	22	11	10	14	2	+40
Oil	54	23	31	36	18	18	9	1	+18
Landfill Gas	48	21	27	16	7	9	23	14	+32
Coal	48	20	28	41	19	21	10	1	+7
Fossil Fuels	47	21	26	25	14	10	20	9	+22
Biomass Energy	31	16	15	8	4	4	24	37	+23

Florida TaxWatch, a statewide nonpartisan, nonprofit research institute, commissioned a survey that shows that there is an overwhelming majority of Floridians that want the Legislature to pass a bill that will increase renewable energy production in the State.

McLaughlin & Associates partnered with Anzalone Liszt Research to develop and conduct a bipartisan survey on November 3-4, 2010. The accuracy of the sample of 800 likely general election voters, who pay their electric bill, is within +/- 3.4% at a 95% confidence interval.







Bottom Line

- ➤ EFW is key to Lake County's integrated solid waste system and is the most environmentally responsible way for Lake County to proceed moving forward.
- Sending Lake County's solid waste to a landfill would transfer the ultimate costs and environmental responsibility to another jurisdiction and future generations.
- Covanta desires to continue operating the Lake County EfW facility and will work through the economics to ensure a mutually beneficial and respectful relationship with the County.







The Facility: Post June 2014

- Covanta and Lake County have made great strides to reduce Lake County's cost of solid waste management service and we should continue to do so.
- Covanta is prepared to start negotiating with the County now to shape a post June 2014 Service Agreement that reflects what we believe to be the Taskforce's long term goals maximizing recycling, minimizing rate payer impact and eliminating the need for a "put or pay" delivery requirement.
- ➤ Based on current market trends we believe we can keep the cost of service affordable for the citizens of Lake County and the communities that surround it.







The Facility: Post June 2014

- There are many variables we are prepared to discuss:
 - Contract Term
 - County Participation Level
 - Participation of the Cities
 - Revenue Sharing
 - Residue Disposal
 - Landfill Operations
 - Leachate Disposal
- Working together we can help Lake County control the economic impact of providing fully integrated solid waste management services



It's Not Waste



It's Energy